

Incremental encoder

- ▶ Only 30 mm diameter
- ▶ 3 short-circuit protected outputs 1, 2, 0
- ▶ Status output for warning indication
- ▶ Shock and vibration protected
- ▶ IP 67, encapsulation class
- ▶ 5 Vdc or 9...36 Vdc



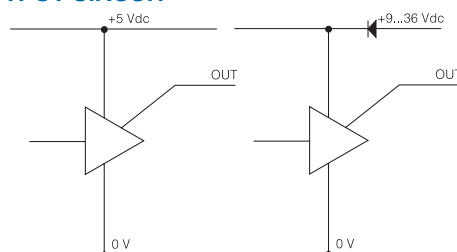
ELECTRICAL SPECIFICATION

Supply voltage +EV	9-36V	5V ±10%
	Polarity protected	---
Current consumption at no load	35mA @ 24V Max 110mA	70mA Max 150mA
Line counts	10, 20, 25, 30, 50, 60, 80, 100, 160, 200, 500, 512, 600, 625, 1000, 1024, 1200, 1250	
Other Line counts on request		
Measuring steps	Max 4 x Line counts	
Accuracy		
Dividing error	± 50° el	
Channel separation	90° ± 25° el	
Outputs	HTL	TTL
	Short circuit protected	
Load max	± 20mA	
Max cable length	100m @ 50kHz	
U _{high} (at 10mA load)	> +EV - 3,0V	> 3,0V
U _{low} (at 10mA load)	< 0,5V	< 0,4V
Frequency range	0...200kHz	
STATUS signal		
Encoder OK	High level	
Warning / Failure	Low level min 25ms	

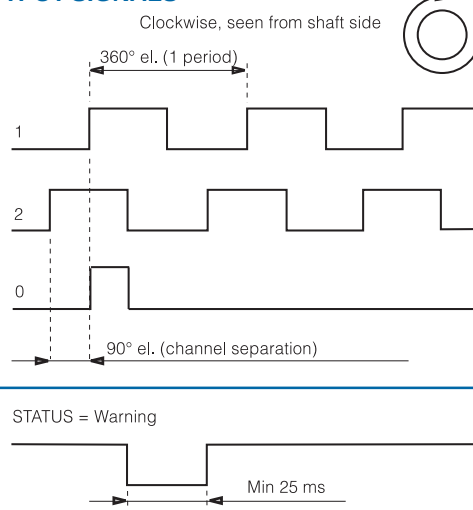
ACCESSORIES

Mating connector straight 7pM9	
with 5m cable	Part. No. 00201070
Mating connector straight 4pM8	
with 2m cable	Part. No. 00201074
with 5m cable	Part. No. 00201075
Mating connector angled 4pM8	
with 2m cable	Part. No. 00201058
with 5m cable	Part. No. 00201068
Couplings	See datasheets for accessories

OUTPUT CIRCUIT



OUTPUT SIGNALS

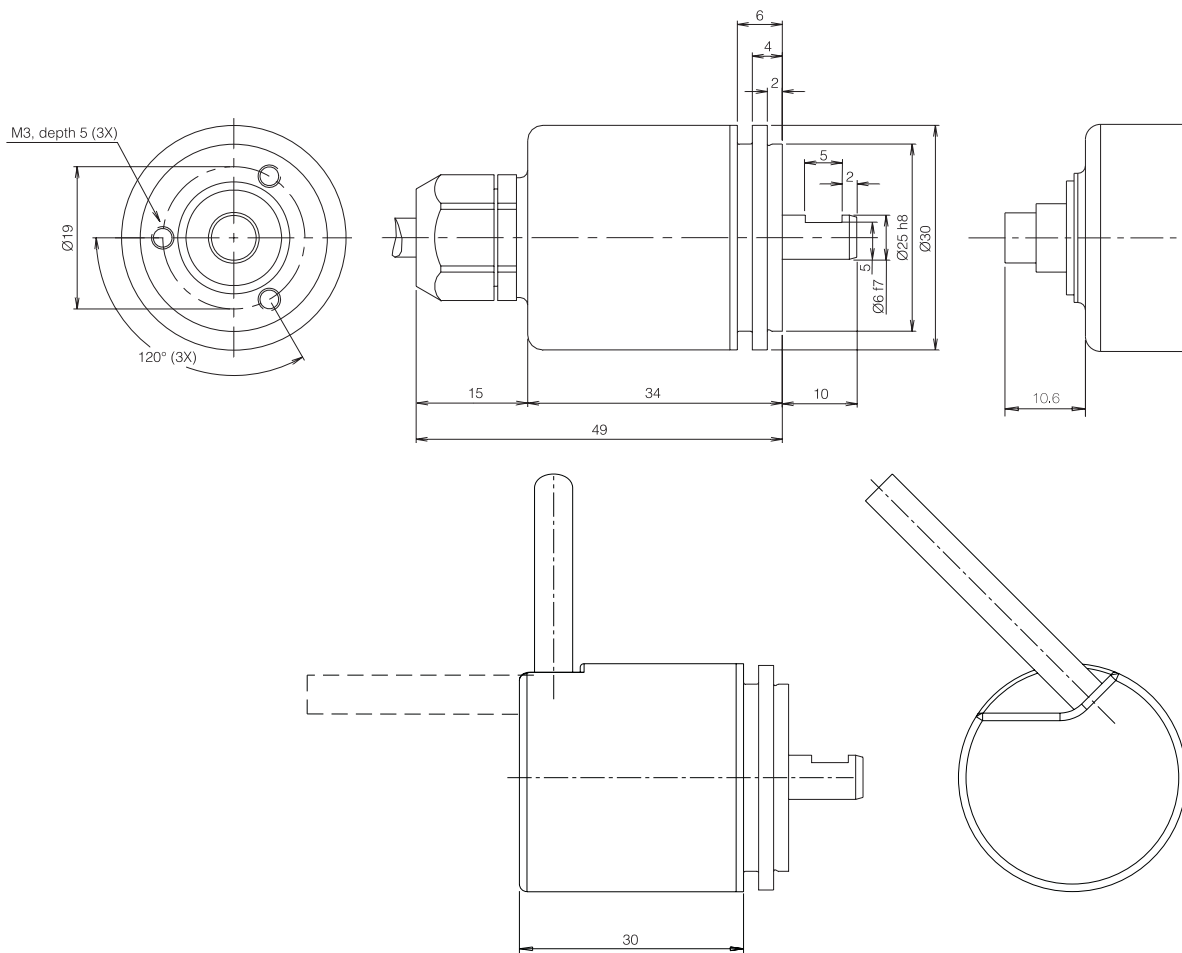


CONNECTION

Function	7 pin M9	4 pin M8	Colour	Accessory cable
1	3	3	Green	3 Green
2	4	4	Yellow	4 Yellow
0	2		Brown	2 Brown
+ E Volt	6	1	Red	6 Pink
0 Volt	7	2	Blue	7 Blue
STATUS	5		Grey	5 Grey
Case			Shield	Shield



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MECHANICAL SPECIFICATION

Shaft, Stainless steel	Ø6mm
Moment of inertia	$0,15 \times 10^{-6} \text{ kgm}^2$
Load max	
Radial	10N
Axial	10N
Speed max	3000 rpm (12000 rpm)
Code disc	Standard
Temperature	
Operating	-35°C ... +70°C
Storage	-40°C ... +85°C
Housing	Aluminum
Weight	Approx. 70 g
Protection class	IP 67 according to IEC 529
Vibration	$<100\text{m/s}^2$ (50...2000 Hz)
Shock	$<1000\text{m/s}^2$ (11ms)
Cable	6x0,25mm ² PUR

ORDERING INFORMATION

3 1 0 - [] [] [] [] [] [] - [] [] [] []

Option

00 = Standard, Cable or 7 pin M9
01 = 4 pin M8

Shaft

1 = Ø 6 mm with face

Connection

0 = Connector, axial
1 = Cable, axial 1.5 m
3 = Cable, radial 1.5 m
8 = Cable, axial xx m
9 = Cable, radial xx m

Supply voltage

1 = 5 Vdc
8 = 9...36 Vdc

Internal use

1 = 10, 20, 25, 30, 80, 100, 125, 500, 512, 600, 625 ppr
5 = 50, 60, 160, 200, 250, 1000, 1024, 1200, 1250 ppr

Line counts



ISO 9001 / ISO 14001 certified

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05-03-09 PS. Specifications can be changed without prior notice.

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